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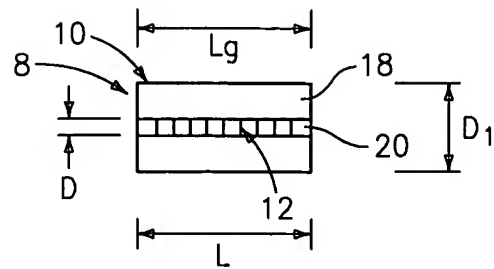


FIG. 1

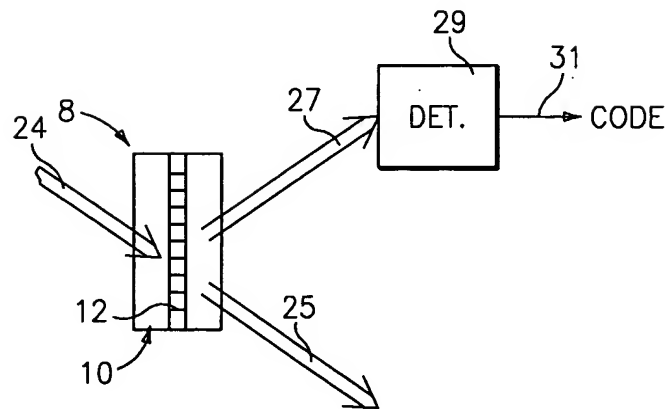


FIG. 2

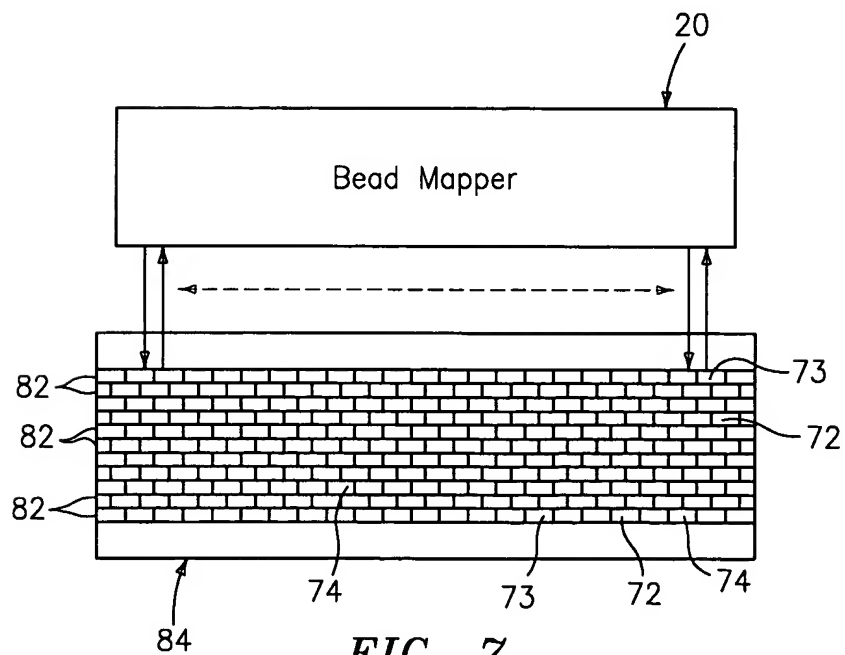
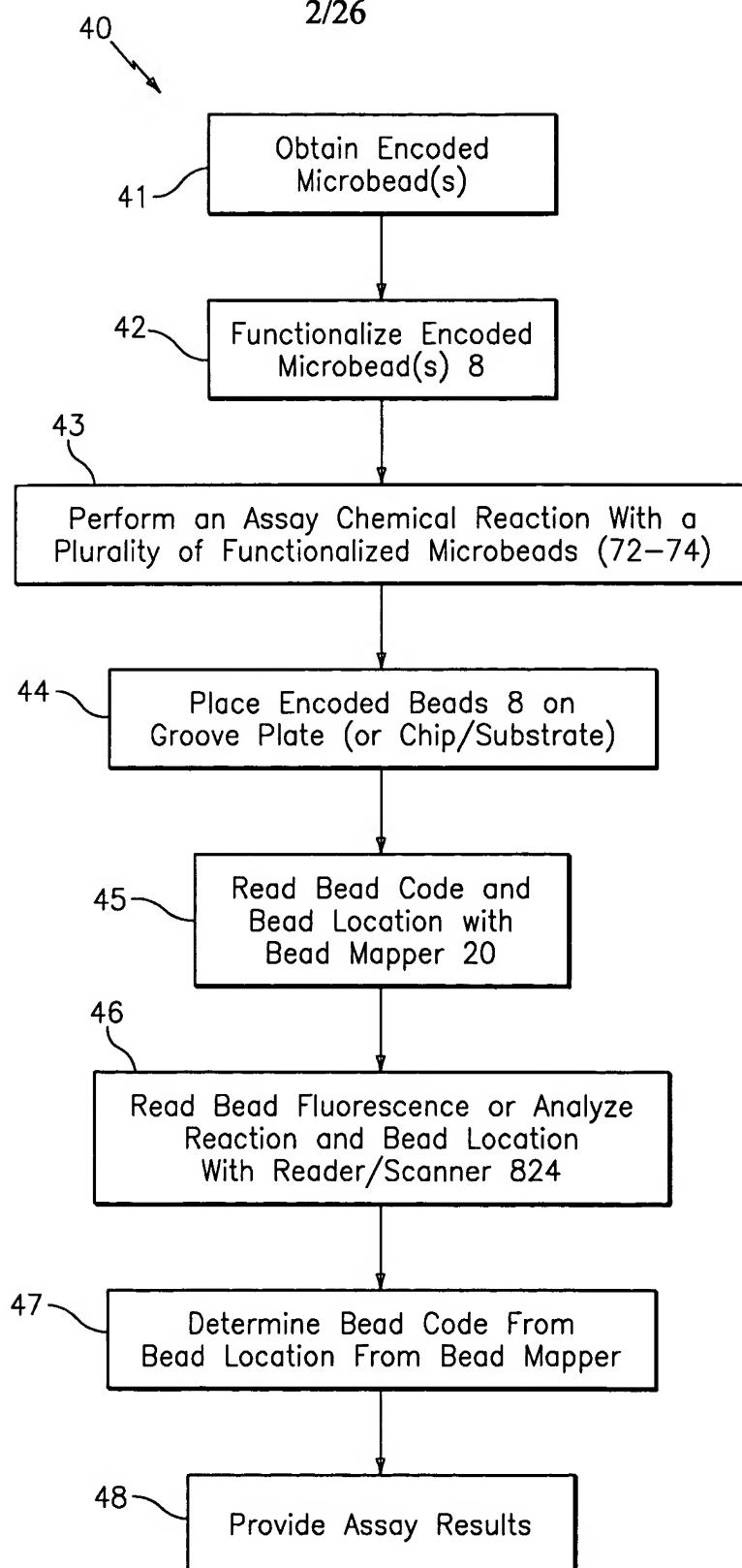


FIG. 7

**FIG. 3**

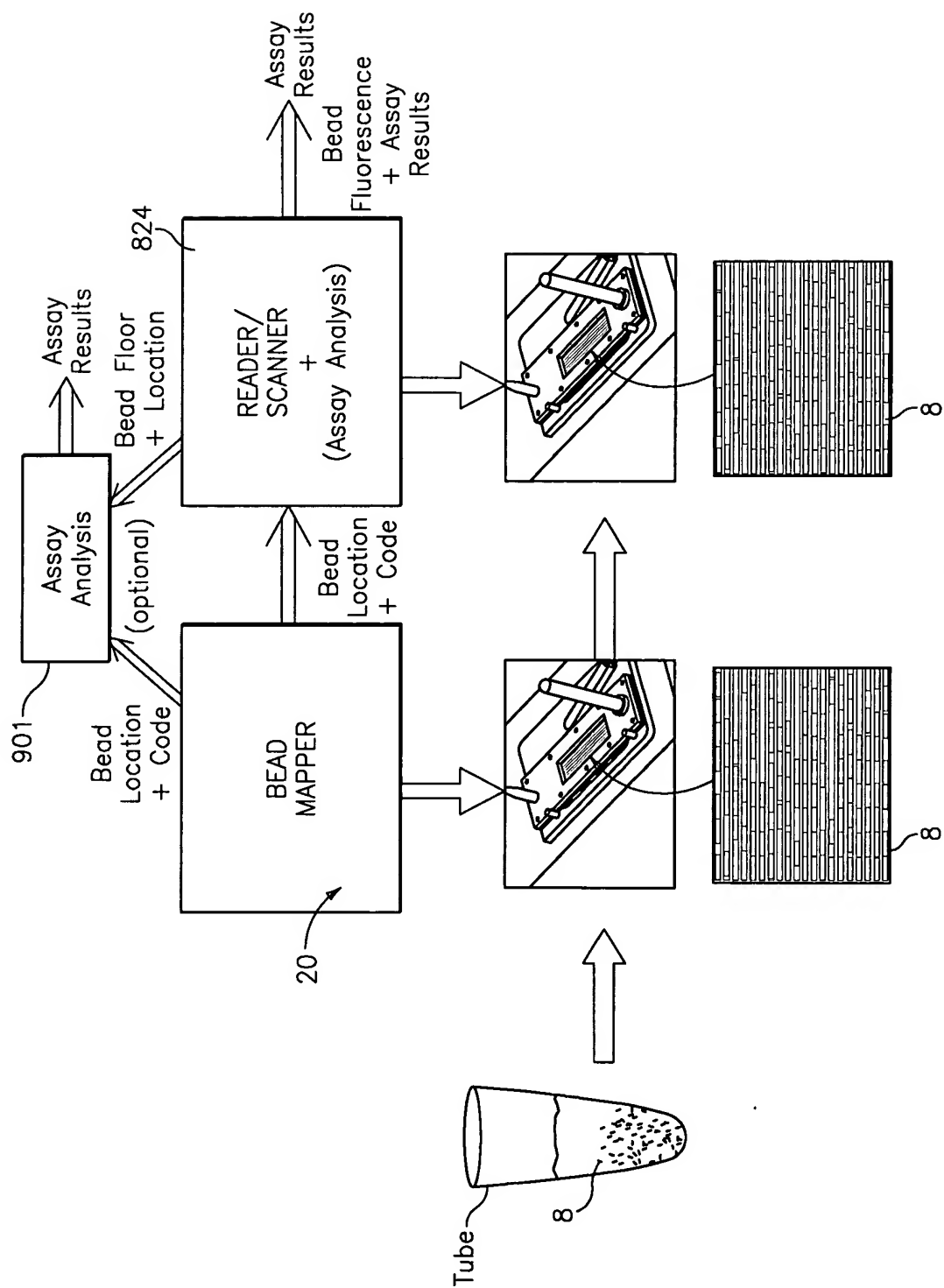


FIG. 3(a)

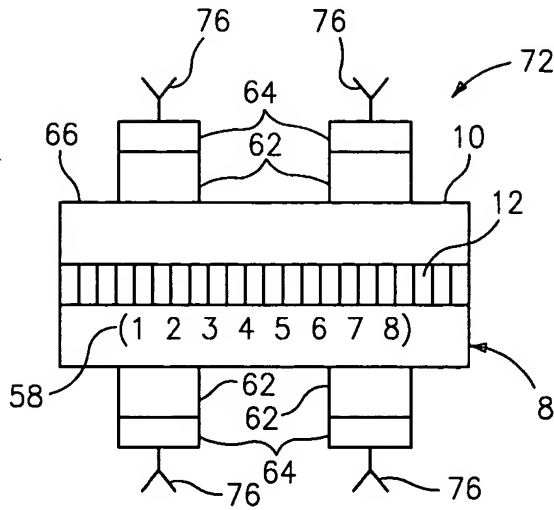


FIG. 4

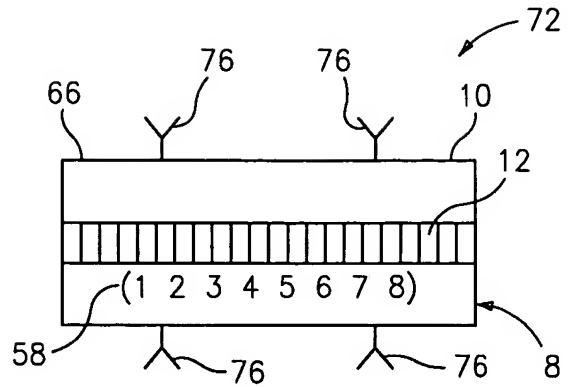


FIG. 5

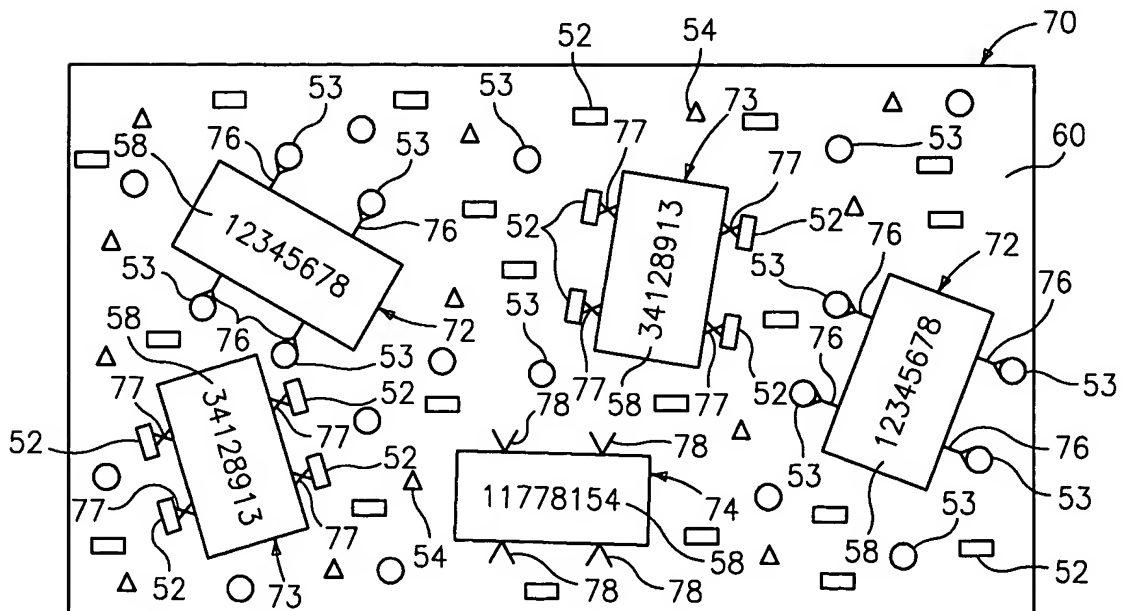


FIG. 6

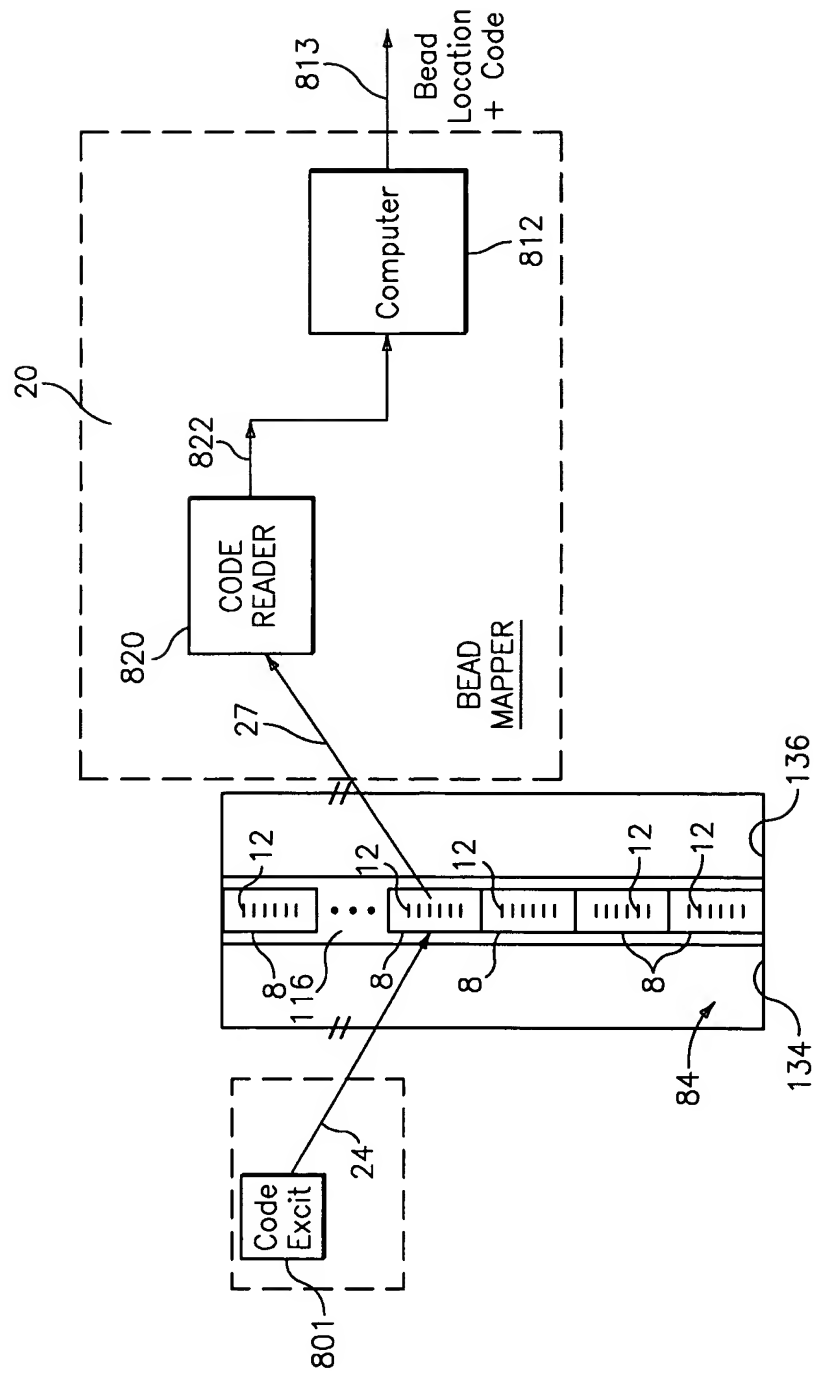


FIG. 8

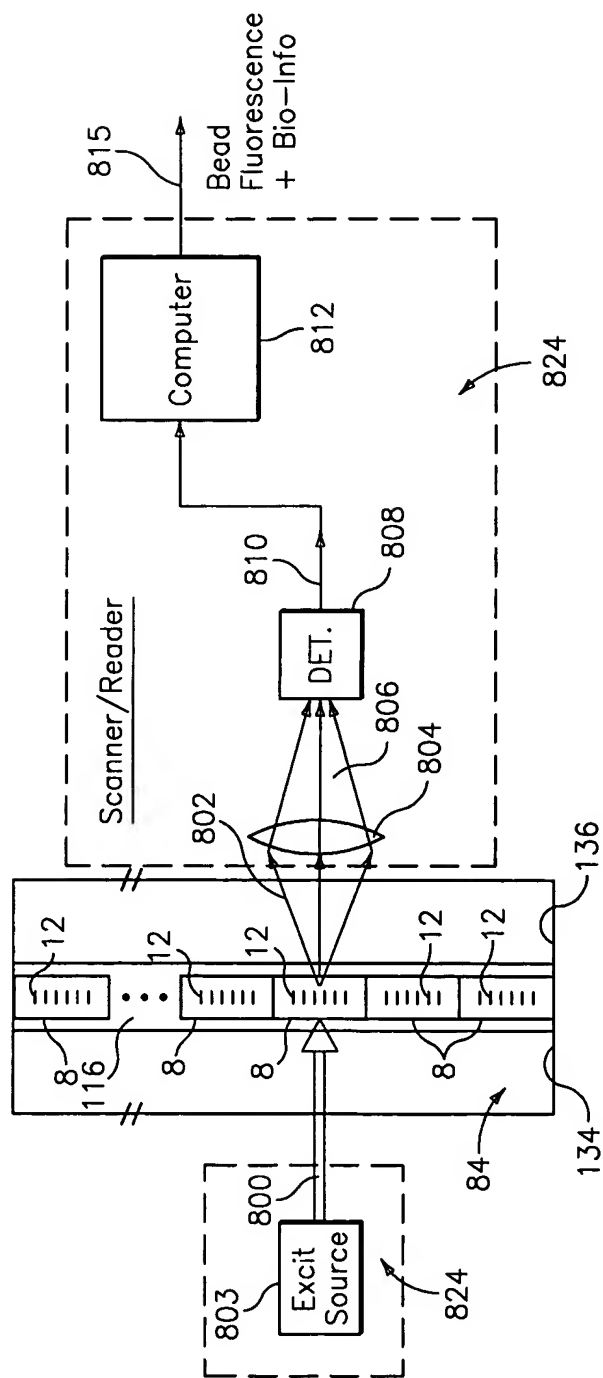


FIG. 9

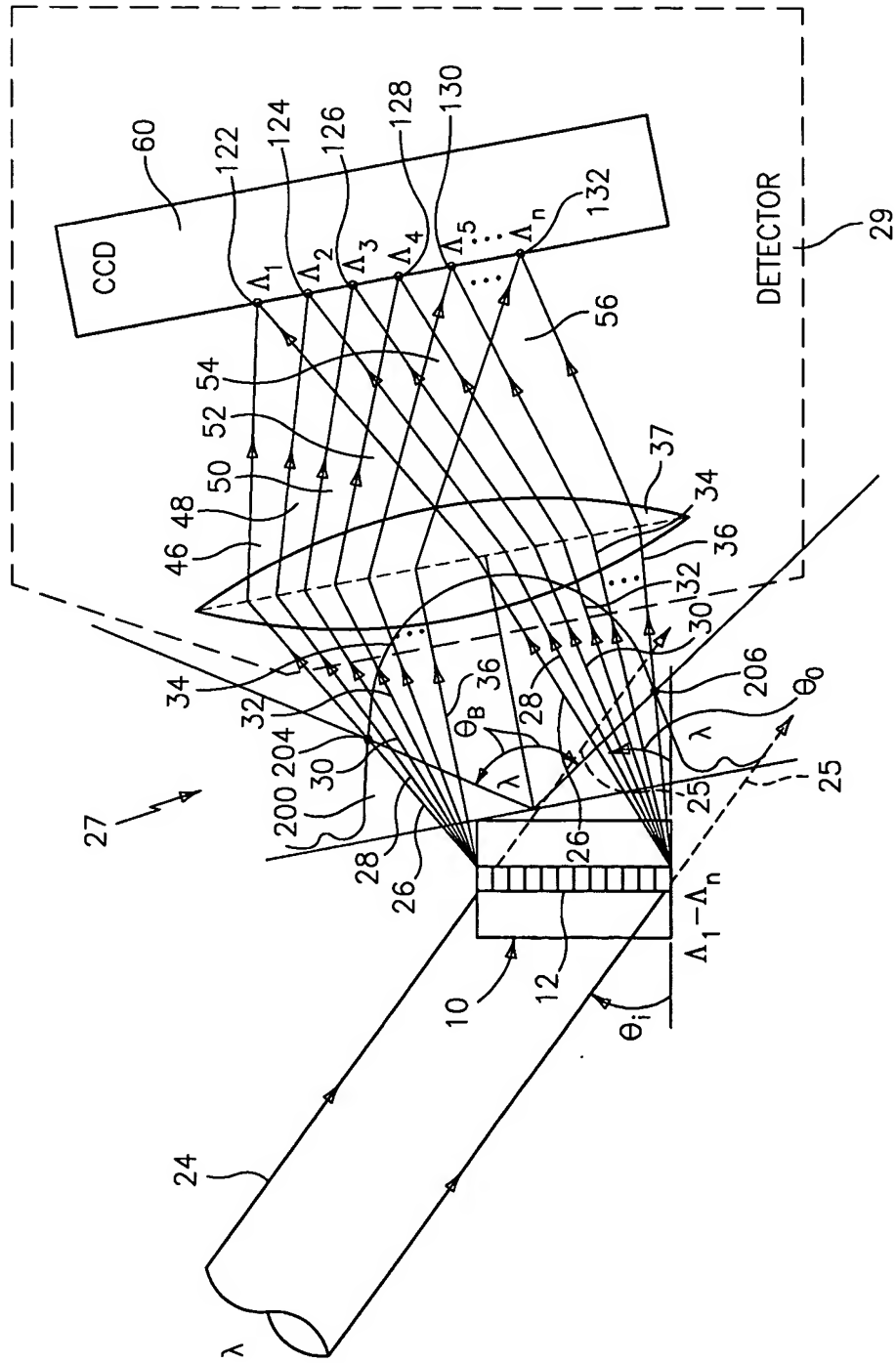
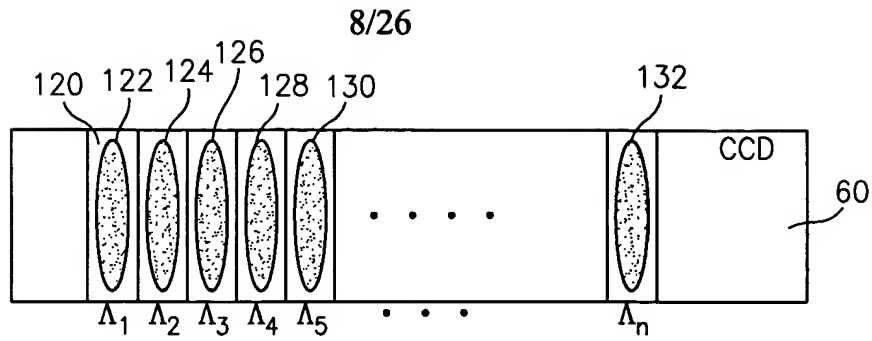
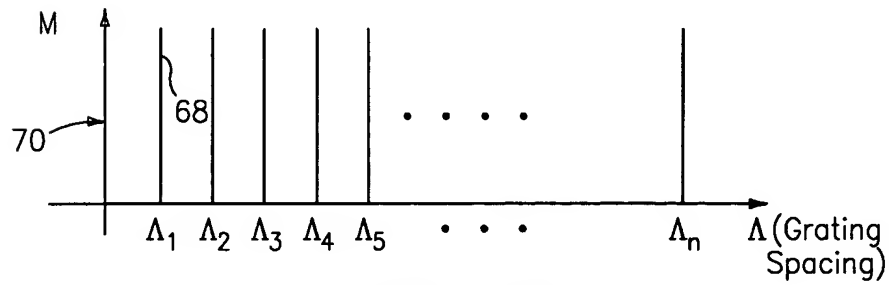


FIG. 10



**FIG. 11**



**FIG. 12**

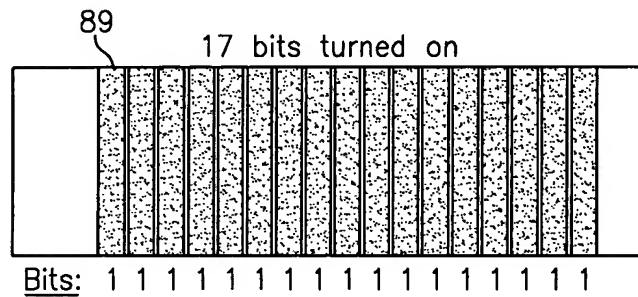


Illustration (a)

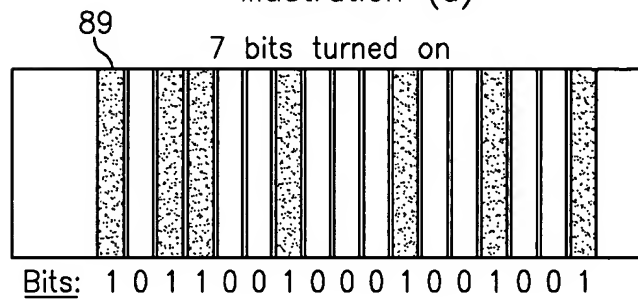


Illustration (b)

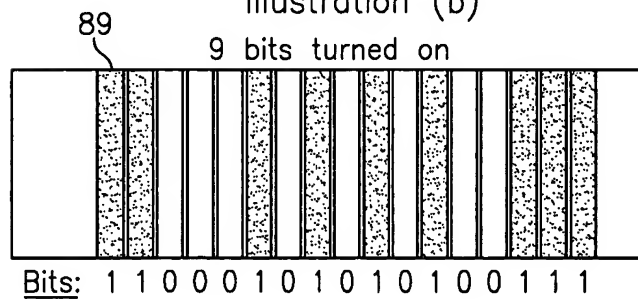


Illustration (c)

**FIG. 13**



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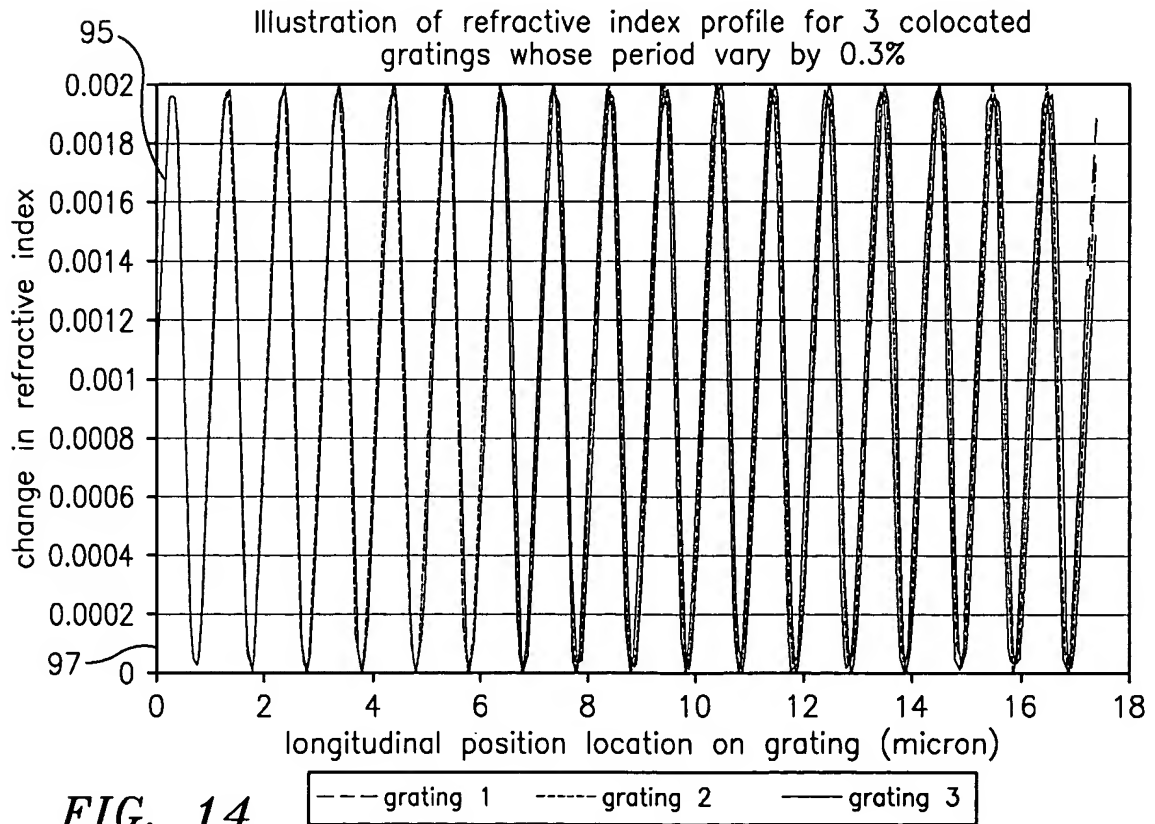
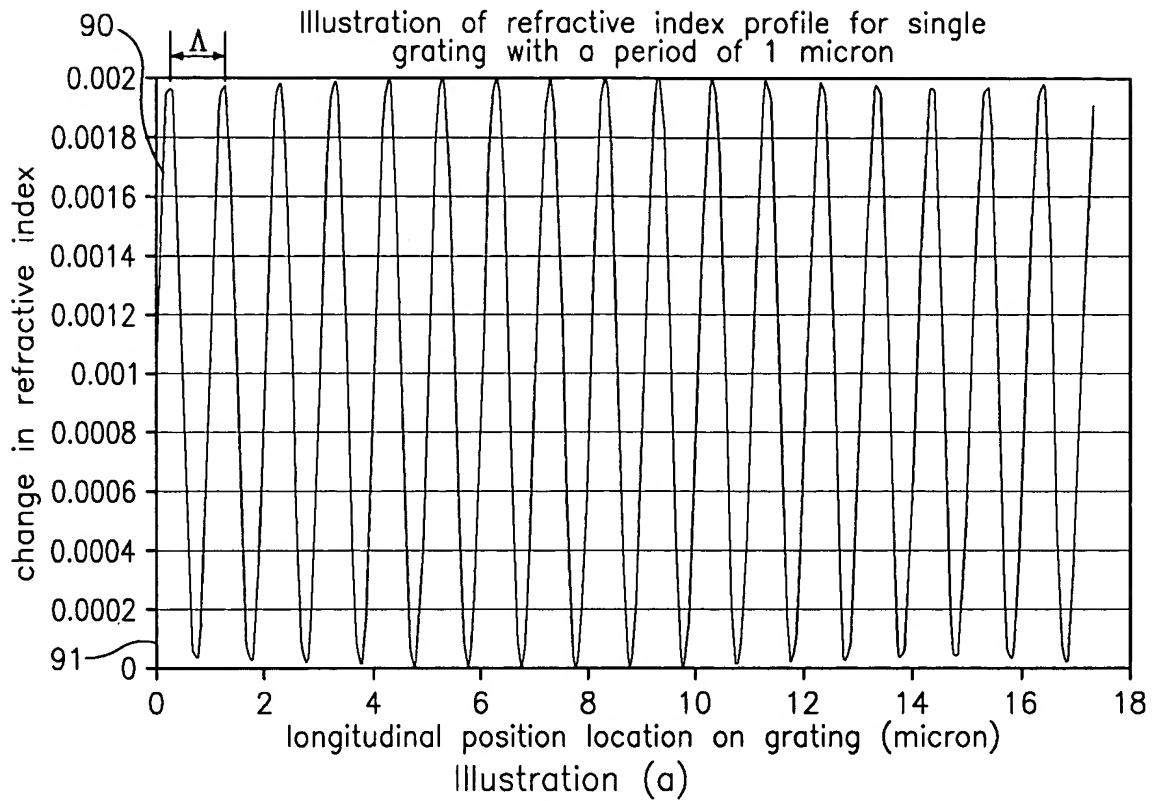


Illustration (c)

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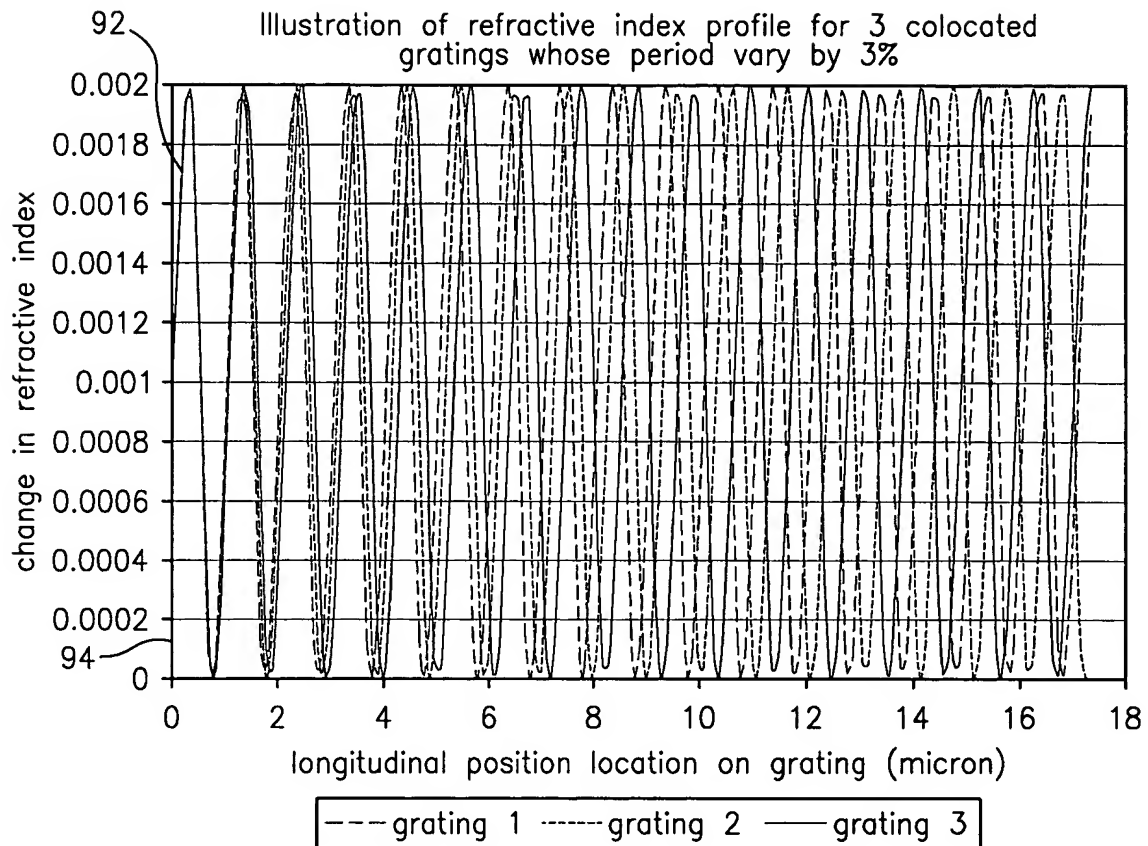


Illustration (b)

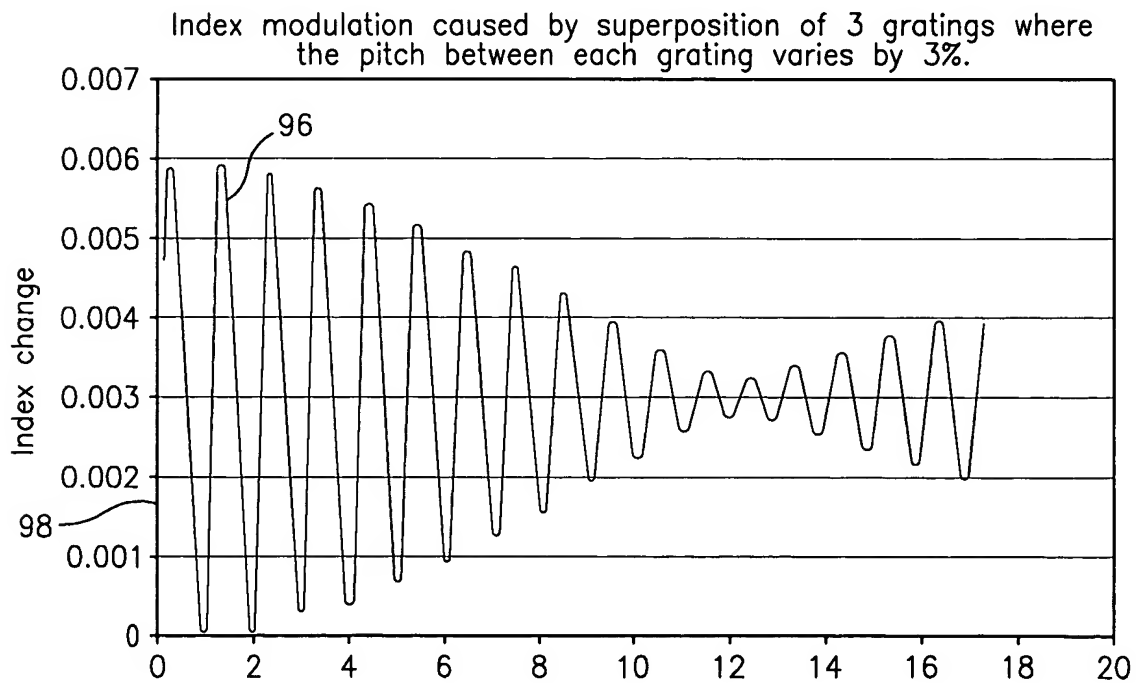


Illustration (d)

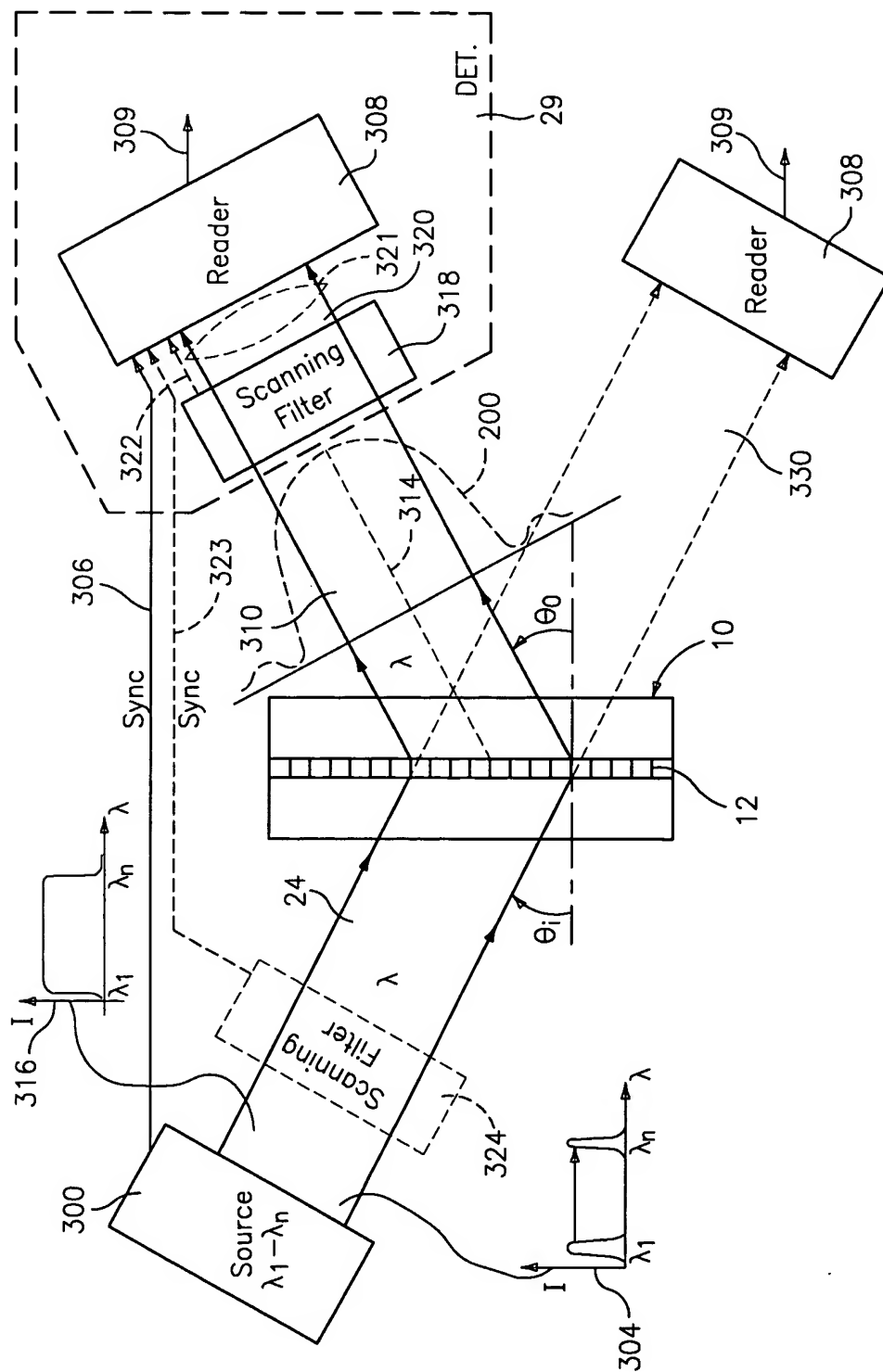
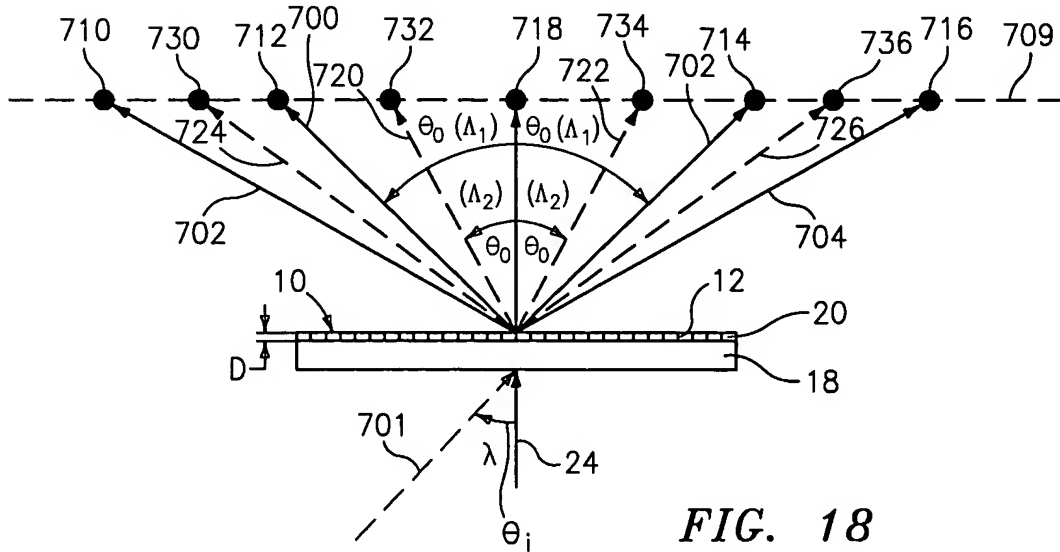
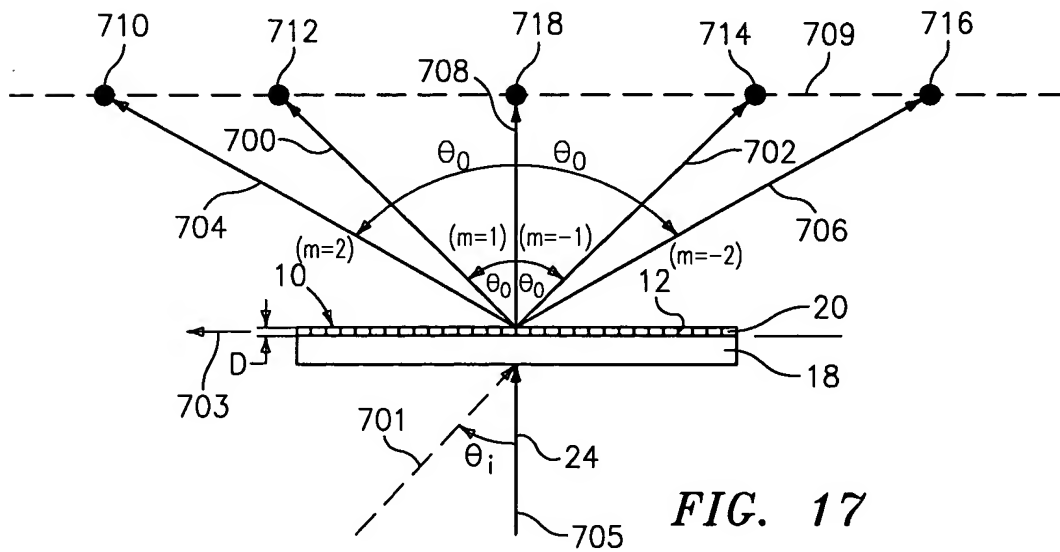
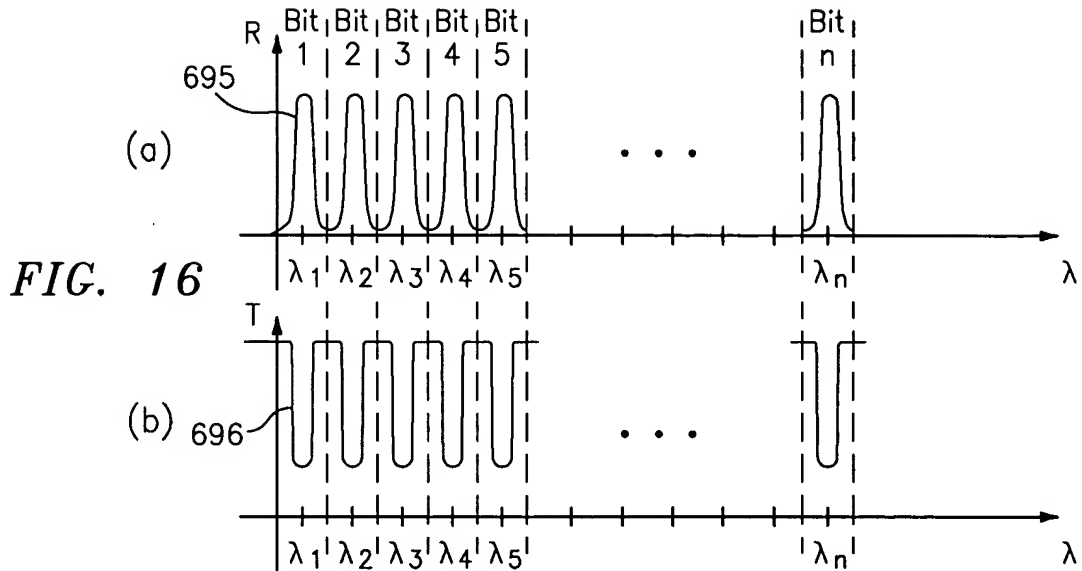


FIG. 15



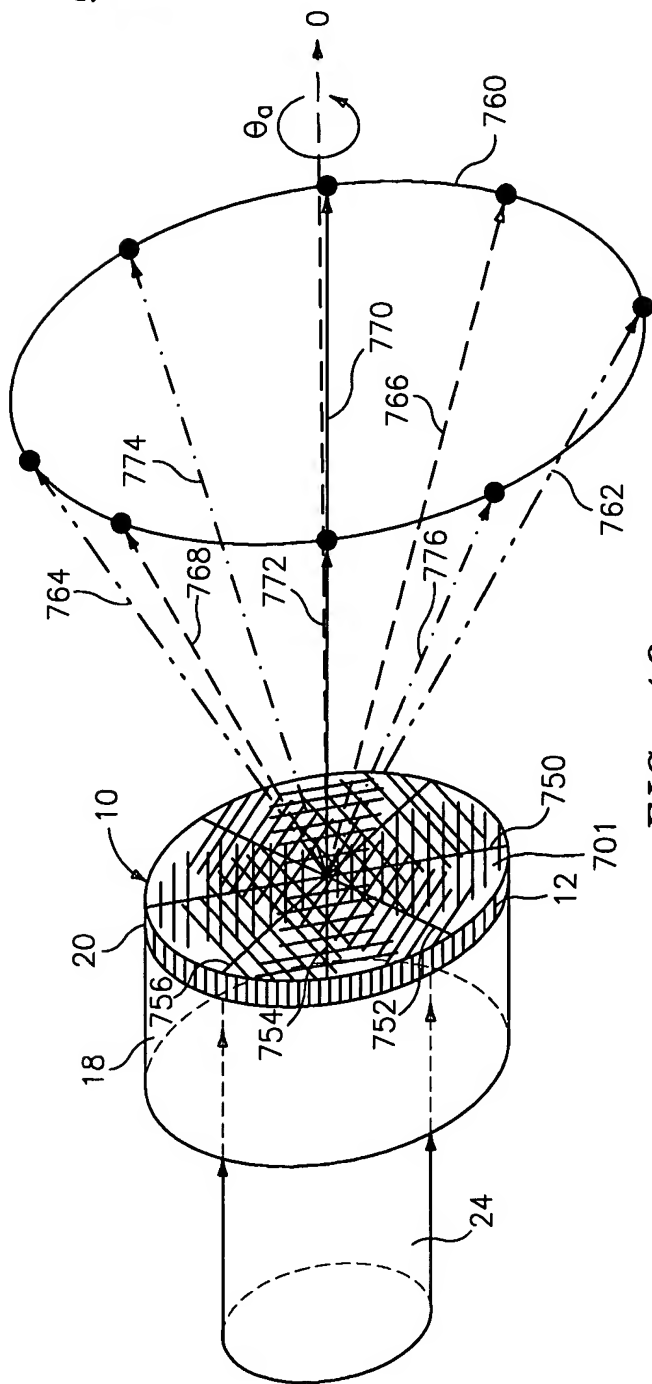


FIG. 19

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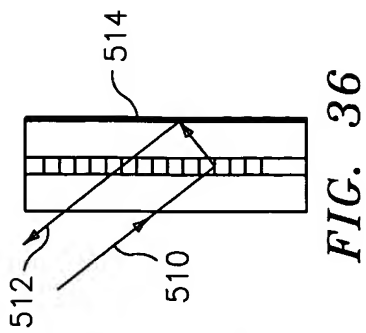


FIG. 36

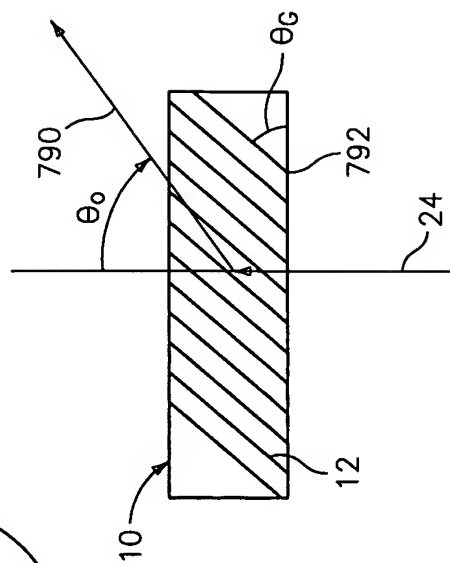


FIG. 20

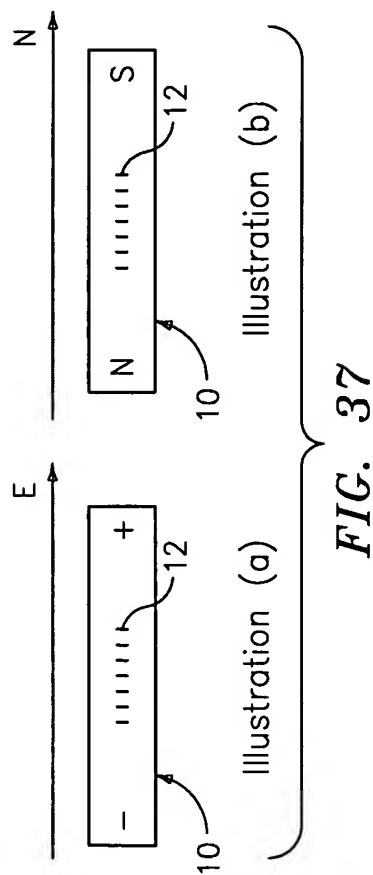


FIG. 37

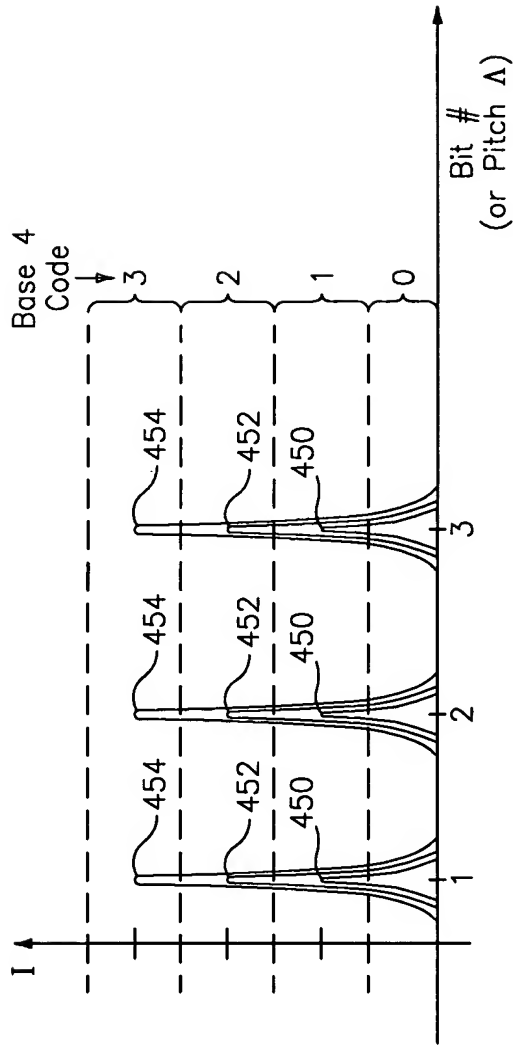


FIG. 21

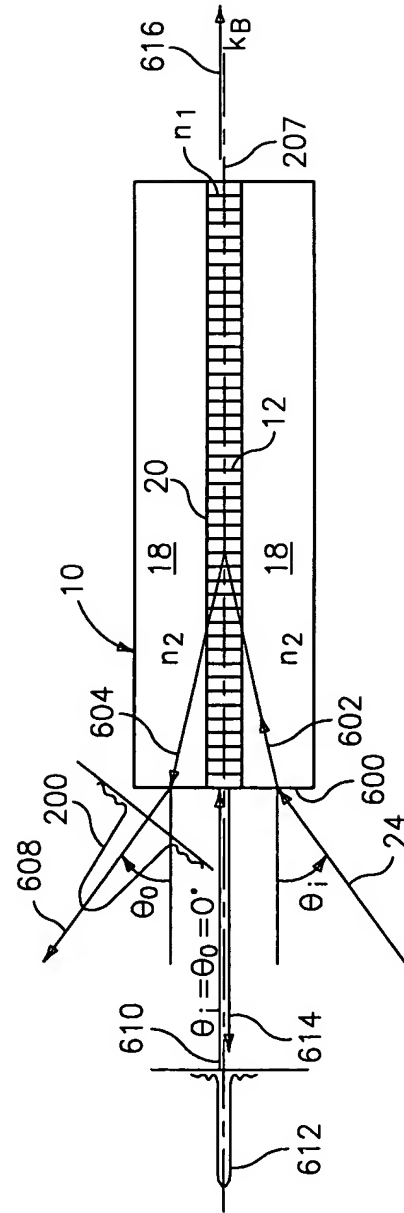


FIG. 22

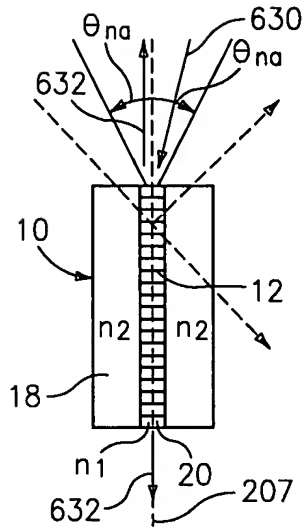


FIG. 23

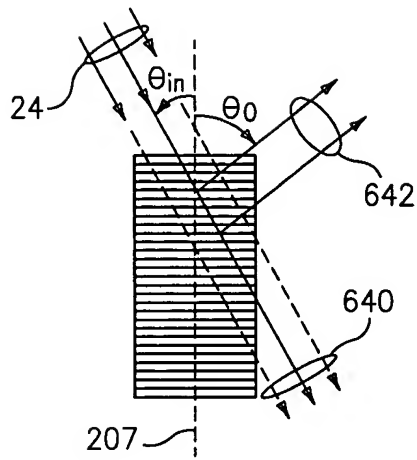
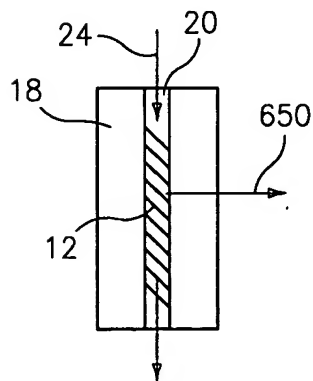
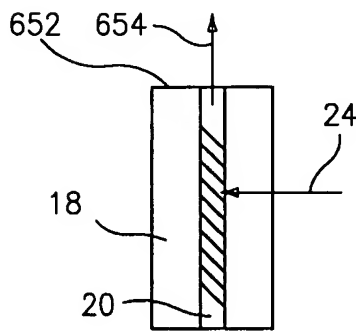


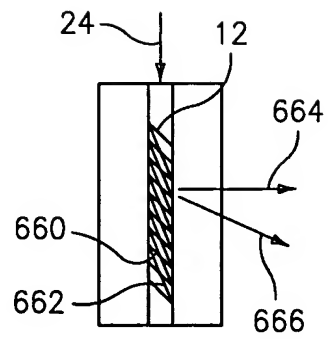
FIG. 24



Illustration(a)



Illustration(b)



Illustration(c)

FIG. 25

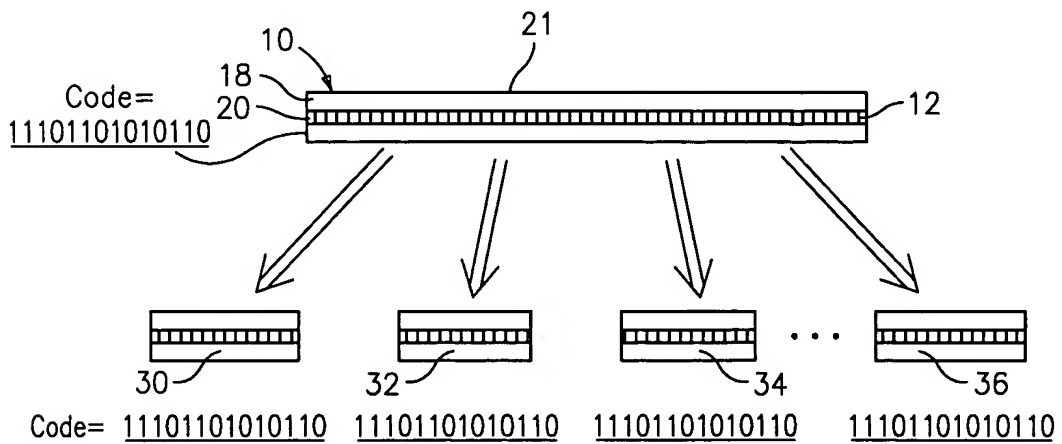
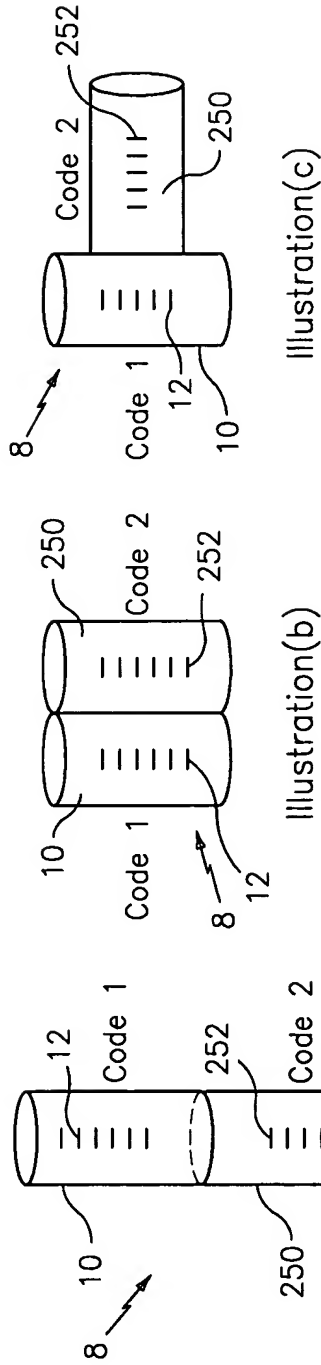


FIG. 27



Illustration(a)

FIG. 29

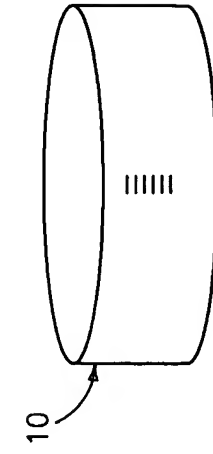


FIG. 31

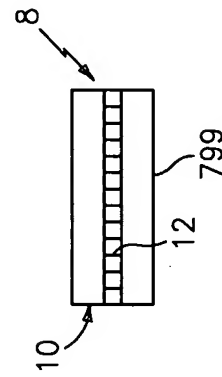


FIG. 26

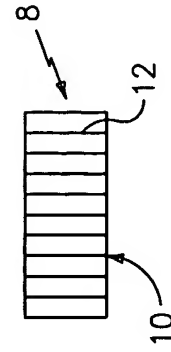
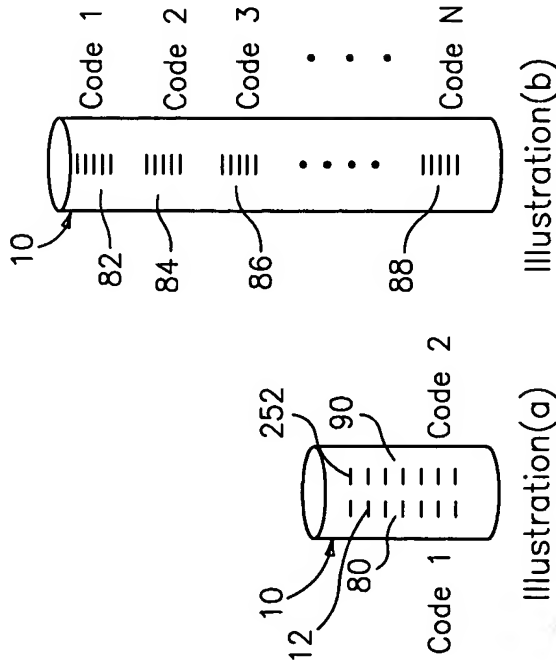


FIG. 28



Illustration(a)

FIG. 30

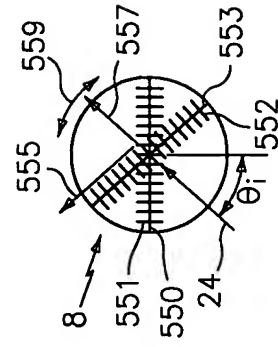
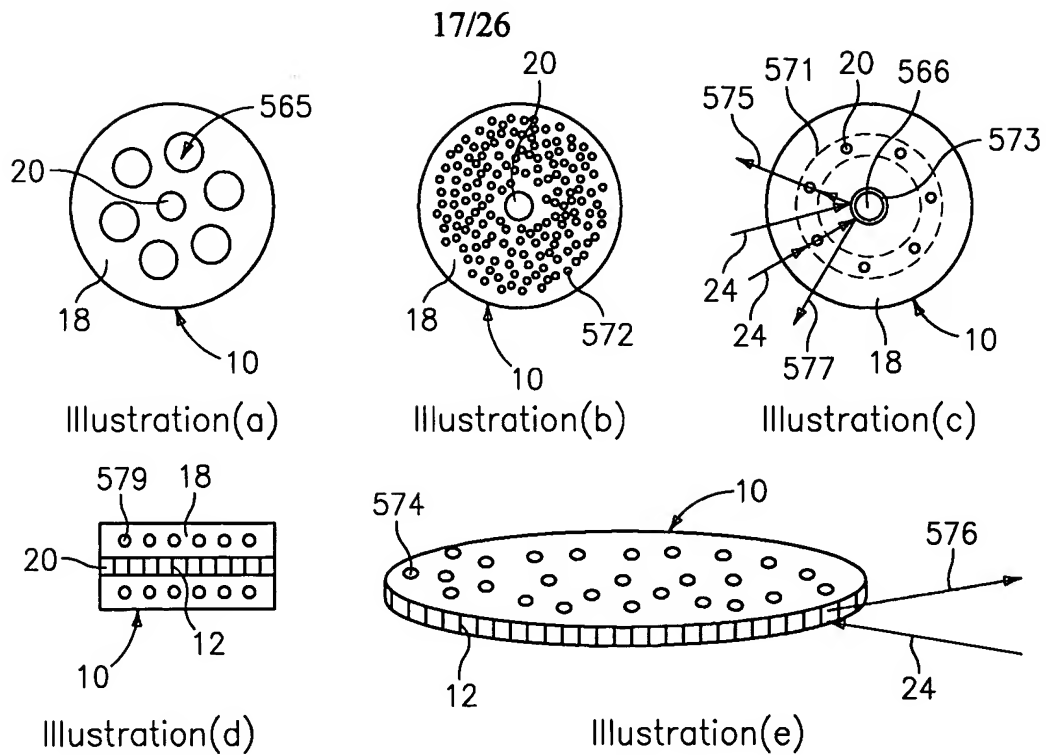
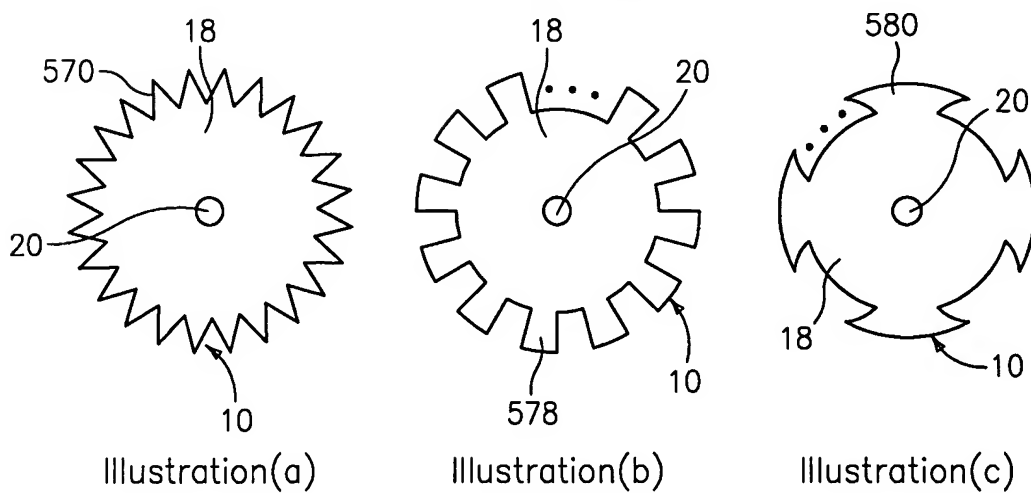


FIG. 32

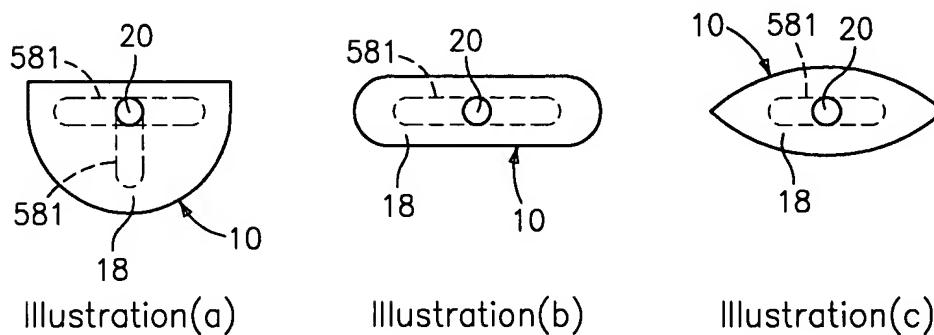




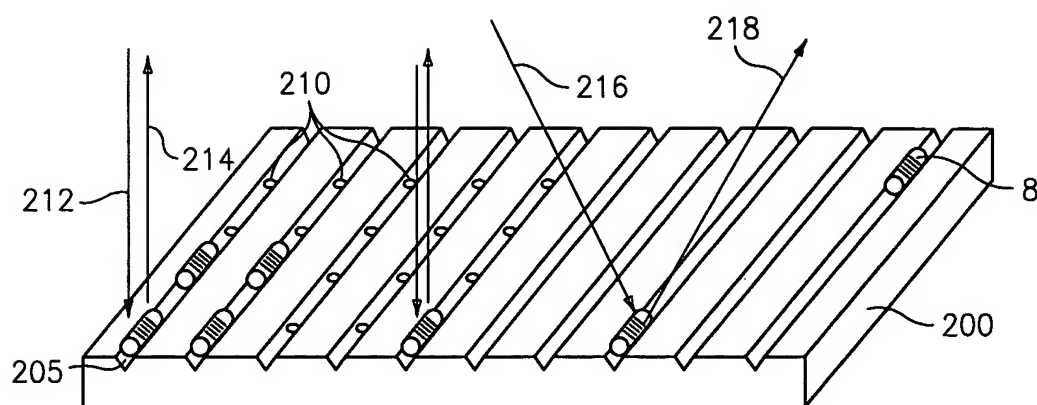
**FIG. 33**



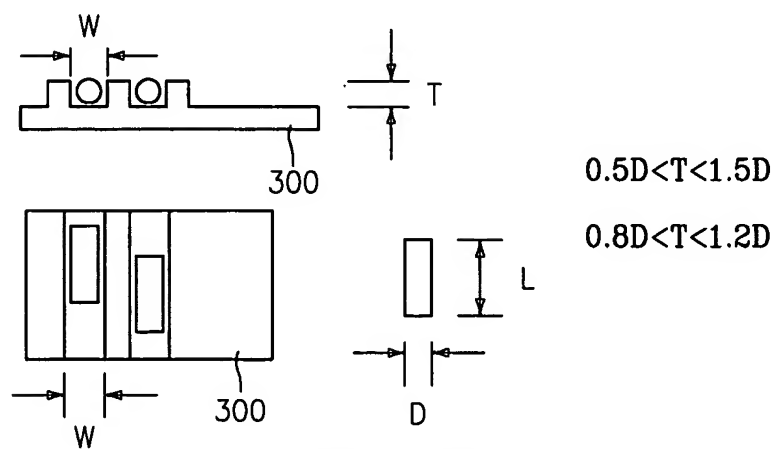
**FIG. 34**



**FIG. 35**



*FIG. 38*



*FIG. 39*

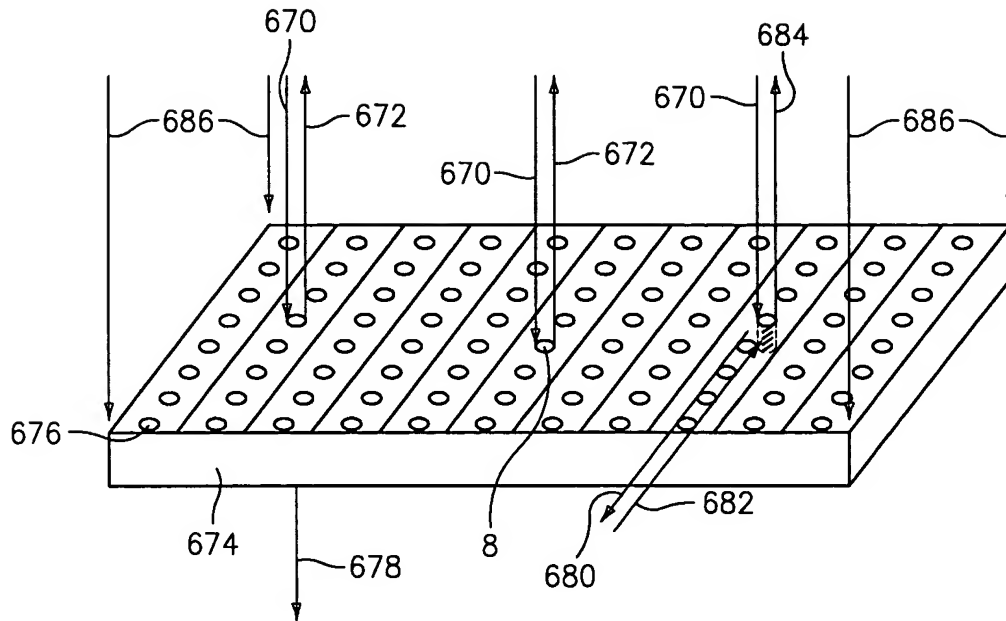
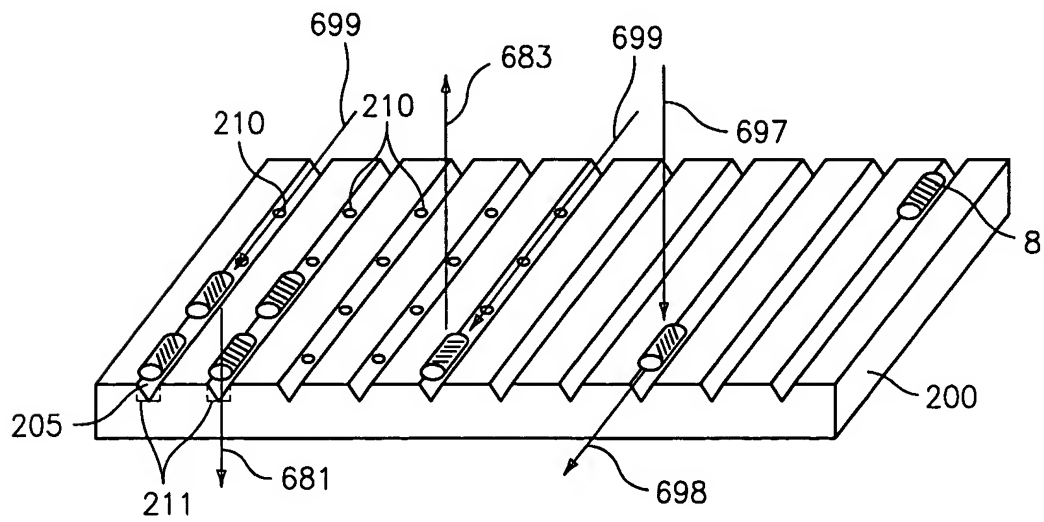
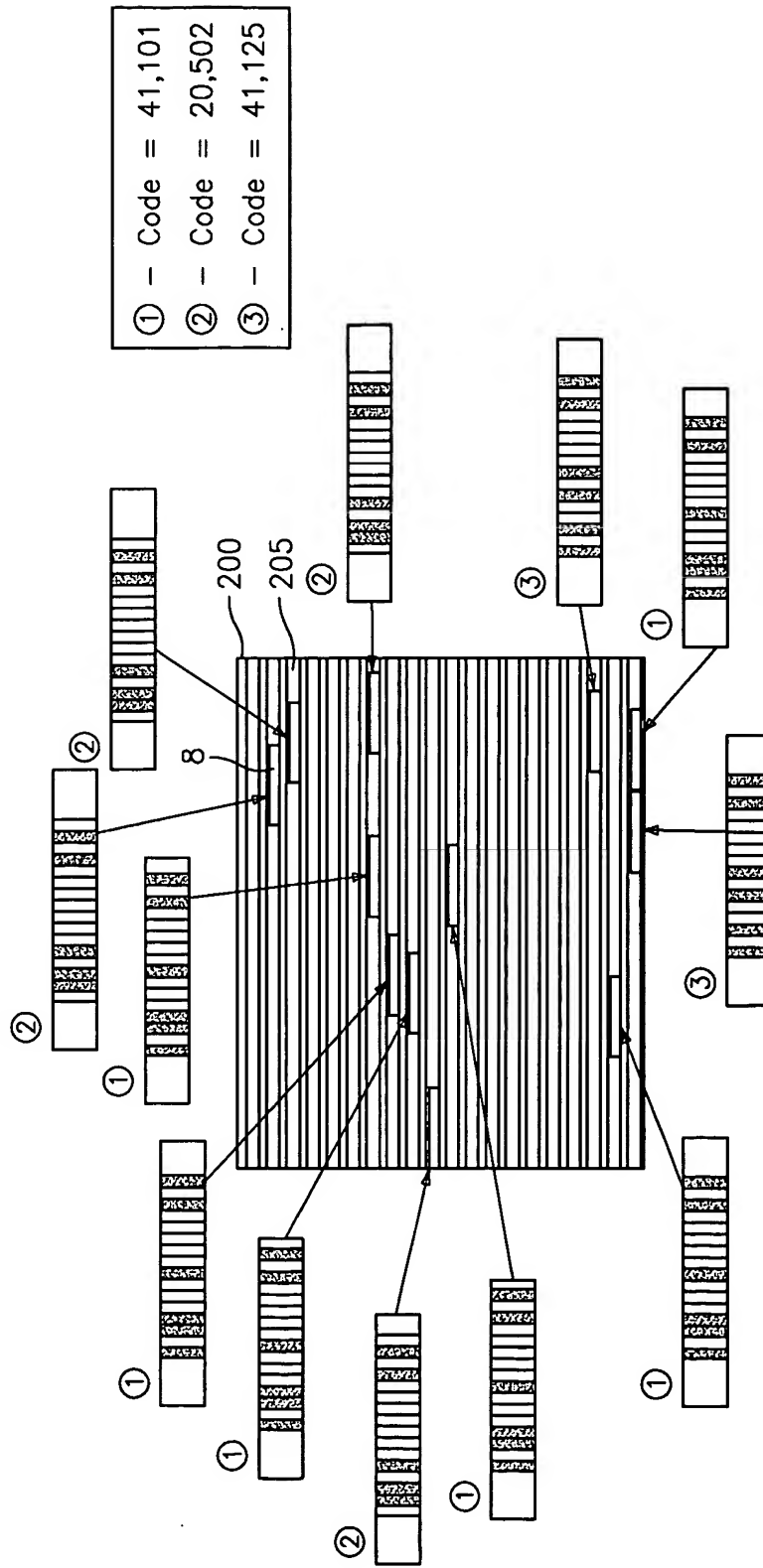


FIG. 40



*FIG. 41*

## Microbead Mapper Readings



- Three different codes in this set (16 bit, binary symbology)
- Each code can have a different oligo attached

FIG. 42

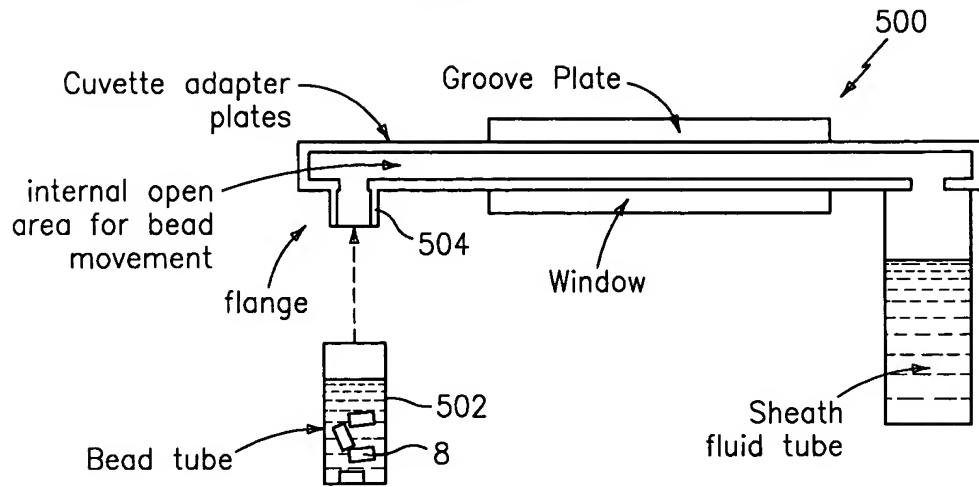


FIG. 43

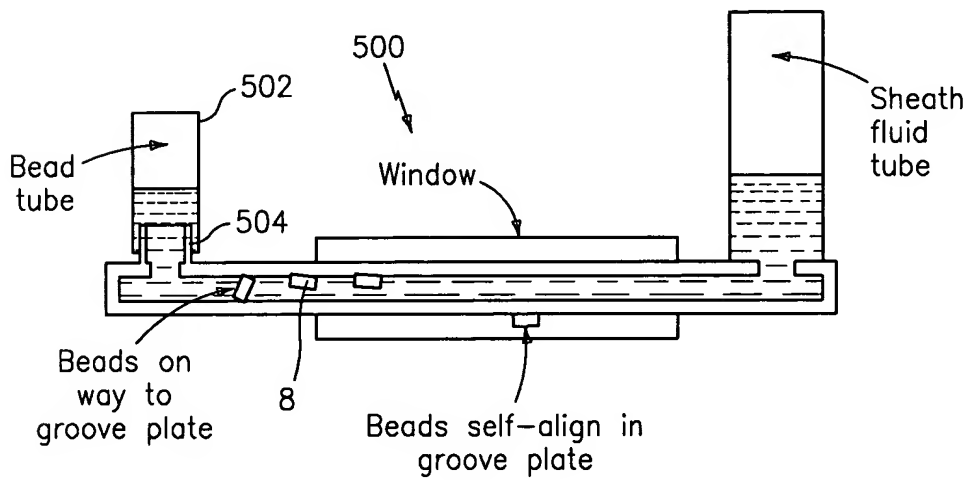


FIG. 44

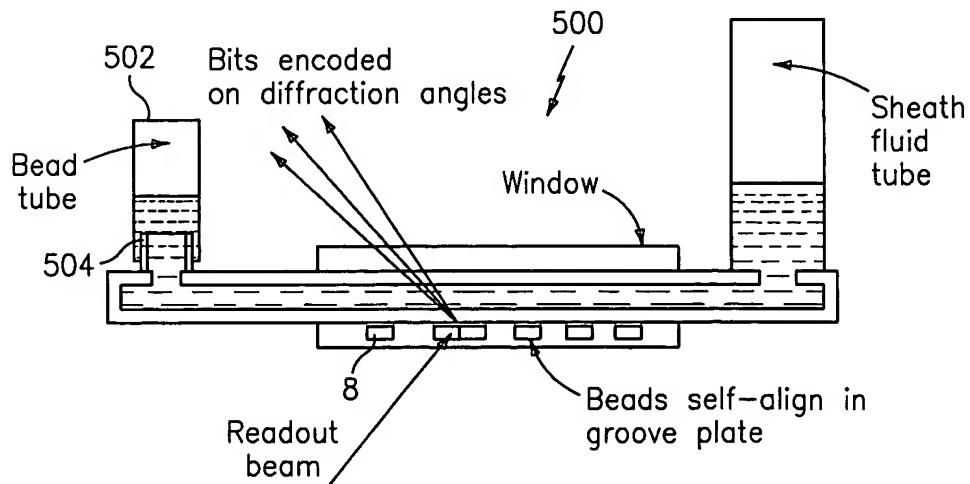
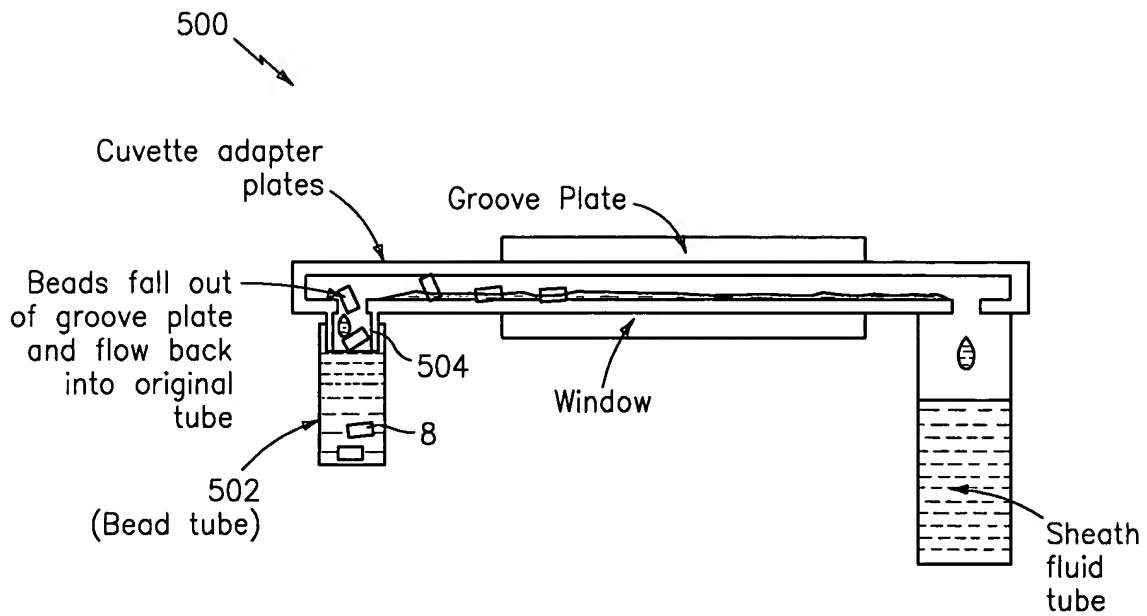
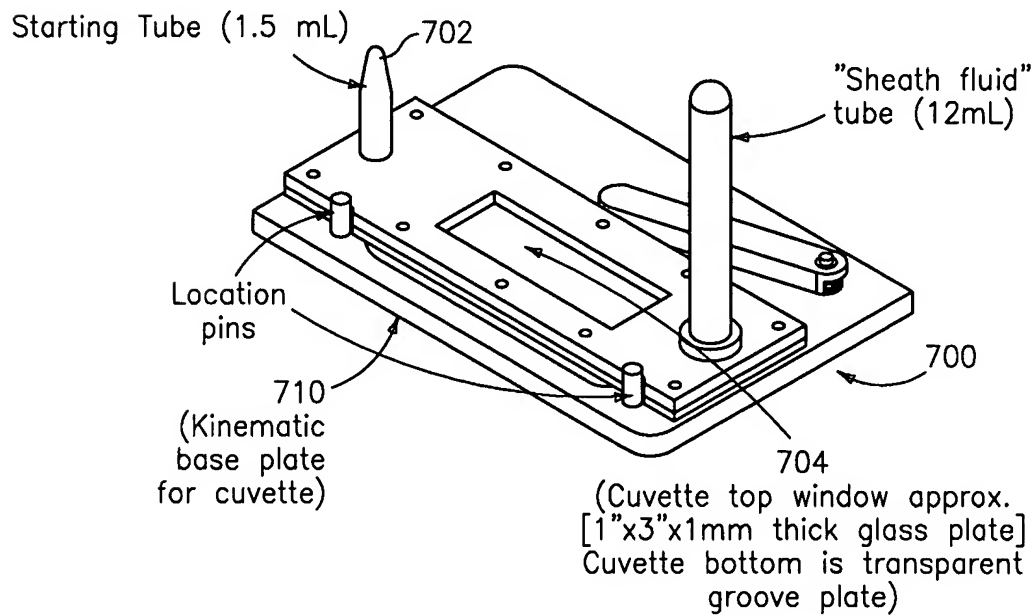


FIG. 45

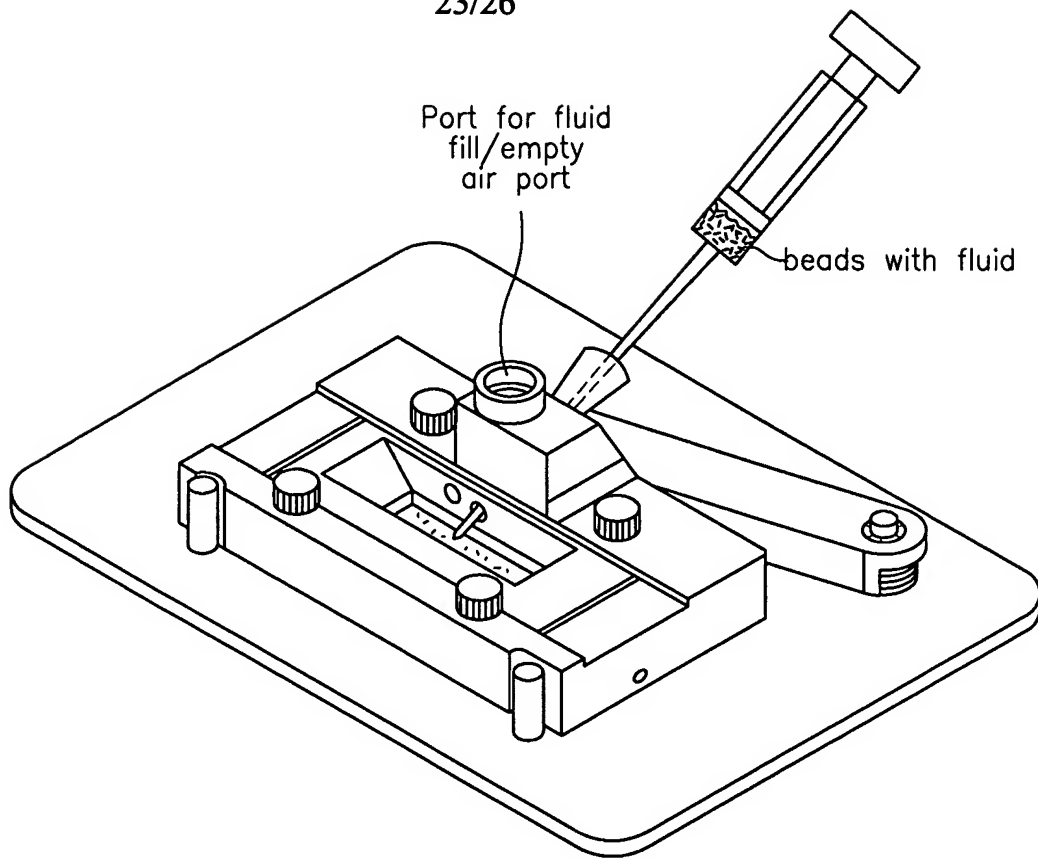


**FIG. 46**

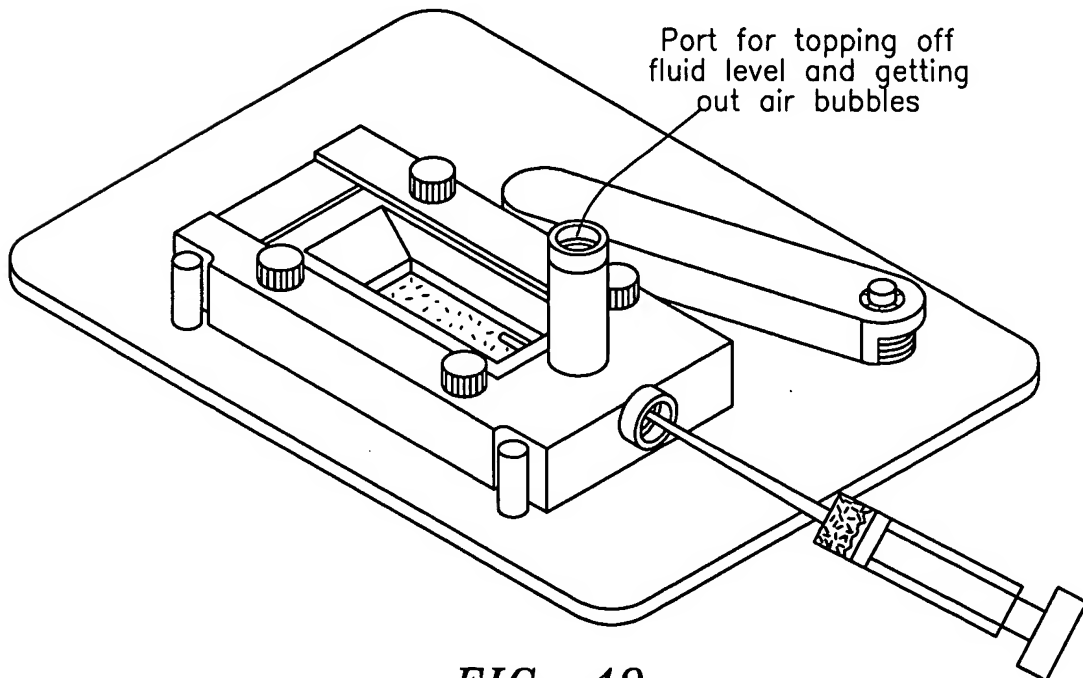


**FIG. 47**

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*FIG. 48*



*FIG. 49*

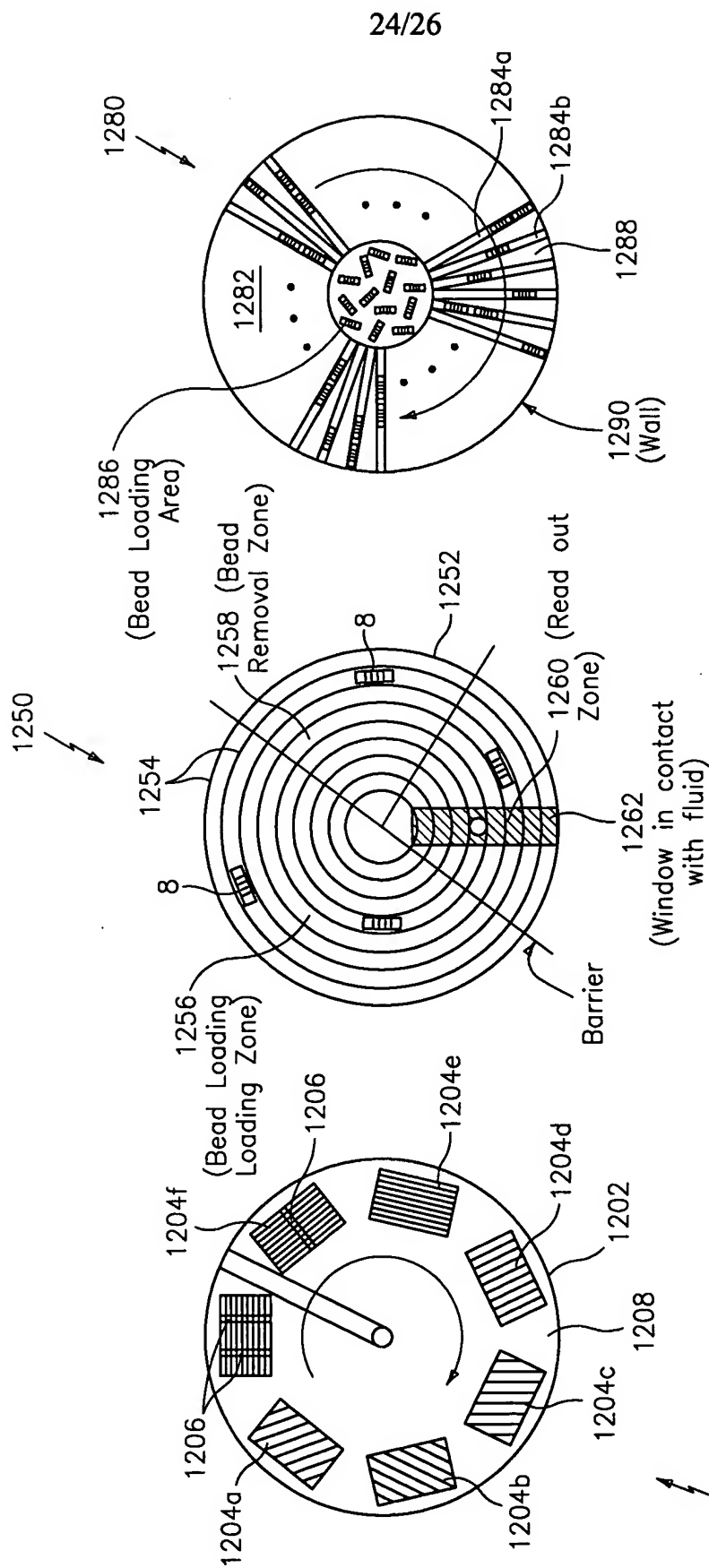


FIG. 50(c)

FIG. 50(a)

FIG. 50(b)



"Cytometer-like" bead reader

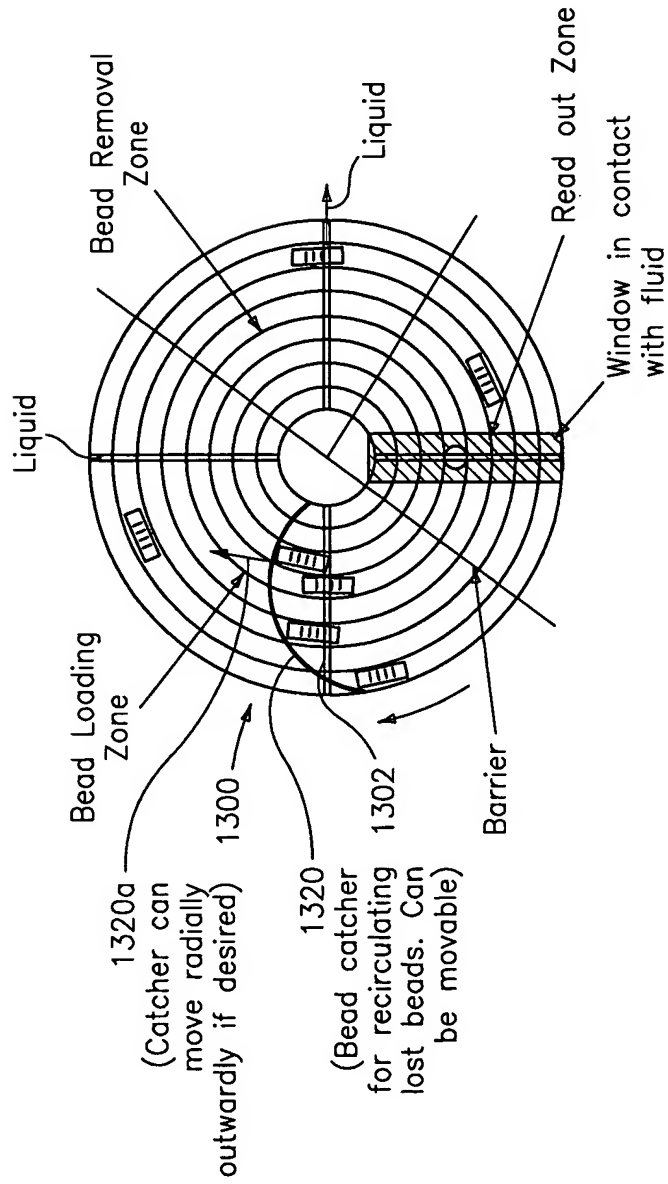


FIG. 51(a)

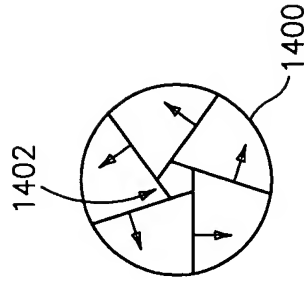


FIG. 51(b)

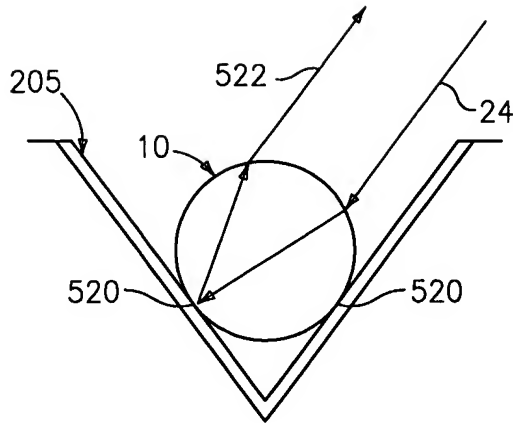


FIG. 52

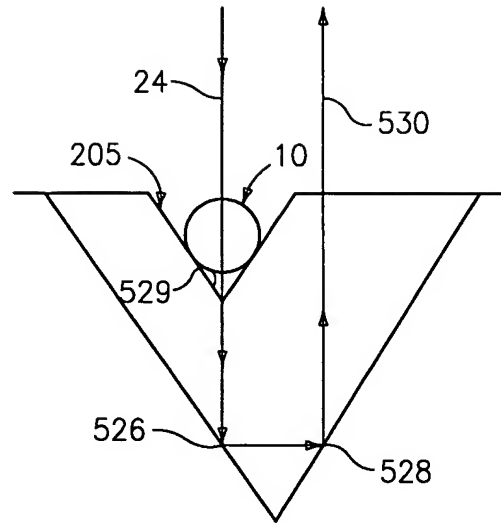


FIG. 53



FIG. 54

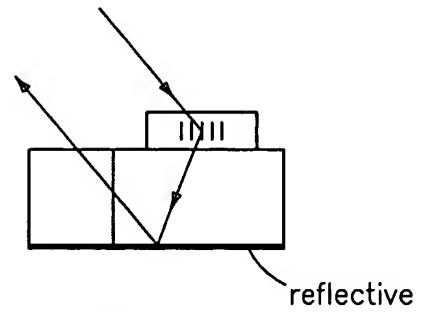


FIG. 55

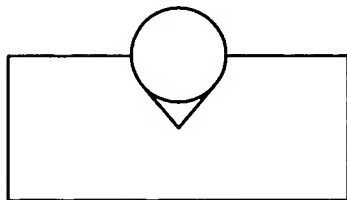


FIG. 56

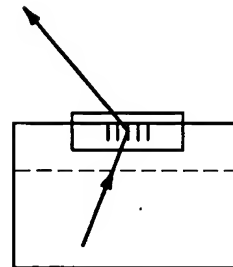


FIG. 57